Appl. No. 10/649,852 Atty. Docket No. 8448R Amdt. Dated 22 December 2005 Reply to Office Action of 07 October 2005 Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

What is claimed is:

- 1. (Currently amended) A method for identifying candidate compounds for regulating skeletal muscle mass or function, comprising:
 - a. contacting a test compound with a vertebrate CRF₂R;
 - b. determining whether the test compound binds to or activates the CRF₂ R;
 - c. selecting those compounds that bind or activate CRF₂R, and further determining whether the test compound increases regulates muscle mass or function in a skeletal muscle atrophy model system; and
 - d. identifying those test compounds that modulate regulate muscle mass or function as candidate compounds for regulating skeletal muscle mass or function.
- 2. (Original) The method for identifying candidate compounds according to Claim 1, in which the CRF₂R is expressed on a eukaryotic cell.
- 3. (Currently amended) The method for identifying candidate compounds according to Claim 1 wherein the CRF₂R has the amino acid sequence corresponding to the amino acid sequence of SEQ ID NO: 10, SEQ ID NO: 12, SEQ ID NO: 14, SEQ ID NO: 18, SEQ ID NO: 20, SEQ ID NO: 24, SEQ ID NO: 26, SEQ ID NO: 32 or SEQ ID NO: 38.
- 4. (Original) The method for identifying candidate compounds according to Claim 2, in which determining whether the test compound activates the CRF₂R involves measuring the cellular cAMP level.
- 5. (Original) The method for identifying candidate compounds according to Claim 4, in which the cell further comprises a reporter gene operatively associated

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with a cAMP responsive element and measuring the cellular cAMP level involves measuring expression of the reporter gene.

- 6. (Original) The method for identifying candidate compounds according to Claim 5, in which the reporter gene is alkaline phosphatase, chloramphenicol acetyltransferase, luciferase, glucuronide synthetase, growth hormone, placental alkaline phosphatase, or Green Fluorescent Protein.
- 7. (Currently amended) A method for identifying candidate compounds for regulating skeletal muscle mass or function comprising:
 - a. contacting a test compound with a cell expressing a functional vertebrate CRF₂R, and determining level of activation of CRF₂R resulting from the test compound;
 - b. contacting said test compound with a cell expressing a functional vertebrate CRF₁R, and determining level of activation of CRF₁R resulting from the test compound;
 - c. comparing the level of CRF₂R activation and the level of CRF₁R activation;
 - d. selecting those test compounds that selectively activate CRF₂R and further determining whether said test compound increases regulates muscle mass or function in a skeletal muscle atrophy model system; and
 - e. identifying those test compounds that modulate regulate muscle mass or function as candidate compounds for regulating skeletal muscle mass or function.
- 8. (Original) The method according to claim 7 wherein the candidate compound exhibits a 100-fold or greater selectivity for CRF₂R.
- 9. (Original) The method according to claim 7 wherein the candidate compound exhibits a 1000-fold or greater selectivity for CRF₂R.

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10. (Original) The method according to claim 7 wherein the candidate compound exhibits between 1-fold and 100-fold selectivity for CRF₂R.

Claims 11-18 (Canceled)